Patents

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Comer et al.)
) Art Unit: **2683**
Serial No.: **09/699,312**)
) Examiner: **K. Ferguson**
Filing Date: **October 27, 2000**)
)
Title: **Interconnect System and Method for Multiple Protocol Short Message Services**)

Please Enter Amendment

RESPONSE TO FINAL OFFICIAL ACTION

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Responsive to the final Official Action mailed March 29, 2004 in the above-identified application, please enter the following amendments. A Petition for Extension of Time with the appropriate fee is submitted with this response.

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 and is being facsimile transmitted to: Mail Stop AF, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, Attn: Examiner K. Ferguson, GAU 2683, Facsimile No. (703) 872-9306 on September 29, 2004.

Robert T. Neufeld, Reg. No. 48,394

Amendments to the Claims

Please cancel Claims 1-13 and 20 without prejudice or disclaimer of the subject matter contained therein.

Please amend the claims as follows:

1. (canceled)

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (canceled)

8. (canceled)

9. (canceled)

10. (canceled)

11. (canceled)

12. (canceled)

13. (canceled)

14. (original) A method for interconnecting a central data communication device and a plurality of remote data communication devices, wherein the remote data communication devices are associated with a plurality of wireless access methods, comprising:

receiving a first transmission from a first remote data communication device associated with a first wireless access method;

retrieving a first mobile identification number (MIN) for the first remote data communication device from the first transmission;

using the first MIN to identify the central data communication device and a data format expected by the central data communication device;

converting the first transmission so that it is compatible with the data format expected by the central data communication device; and

transmitting the converted first transmission to the central data communication device.

15. (original) The method of claim 14, further comprising:

receiving a second transmission from a second remote data communication device associated with a second wireless access method;

retrieving a second MIN for the second remote data communication device from the second transmission;

using the second MIN to identify the central data communication device and a data format expected by the central data communication device;

converting the second transmission so that it is compatible with the data format expected by the central data communication device; and

transmitting the converted second transmission to the central data communication device.

16. (original) The method of claim 14, further comprising:

retrieving a first mobile switching center identification number (MSCID) for a mobile switch associated with the first remote data communication device from the first transmission; and

using the first MSCID, along with the first MIN, to determine whether the first wireless access method and the data format expected by the central data communication device are compatible.

17. (original) The method of claim 14, further comprising:

receiving a third transmission from the central data communication device;

retrieving the first mobile identification number (MIN) from the third transmission;

using the first MIN to identify the first remote communication device and the first wireless access method associated with the first remote data communication device; and

transmitting the third transmission to the first remote data communication device.

18. (original) The method of claim 17, further comprising:

using the first MIN to identify a transmission path between an arbitrator and a mobile switching center (MSC) associated with the first remote device.

19. (original) The method of claim 14, wherein using the first MIN to identify the central data communication device, comprises:

using the first MIN to access a database maintained by an arbitrator.

20. (canceled)

21. (previously added) A method for interconnecting a central data communication device and a plurality of remote data communication devices, wherein the remote data communication devices are associated with a plurality of wireless access methods, comprising:

receiving a converted first transmission from an arbitrator wherein the arbitrator created the converted first transmission from an original first transmission by

receiving the original first transmission from a first remote data communication device associated with a first wireless access method;

retrieving a first mobile identification number (MIN) for the first remote data communication device from the original first transmission;

using the first MIN to identify the central data communication device and a data format expected by the central data communication device; and

converting the original first transmission so that it is compatible with the data format expected by the central data communication device.

22. (previously added) The method of Claim 21, further comprising:

receiving a converted second transmission from the arbitrator wherein the arbitrator created the converted second transmission from an original second transmission by

receiving the original second transmission from a second remote data communication device associated with a second wireless access method;

retrieving a second mobile identification number (MIN) for the second remote data communication device from the original second transmission;

using the second MIN to identify the central data communication device and the data format expected by the central data communication device; and

converting the original second transmission so that it is compatible with the data format expected by the central data communication device.

23. (previously added) The method of Claim 21, wherein the arbitrator is further operable for

retrieving a first mobile switching center identification number (MSCID) for a mobile switch associated with the first remote data communication device from the original first transmission; and

using the first MSCID, along with the first MIN, to determine whether the first wireless access method and the data format expected by the central data communication device are compatible.

24. (previously added) The method of Claim 21, further comprising

sending a third transmission from the central data communication device to the arbitrator, wherein the arbitrator is operable for,

retrieving the first mobile identification number (MIN) from the third transmission;

using the first MIN to identify the first remote communication device and the first wireless access method associated with the first remote data communication device;

converting the third transmission so that it is compatible with the data format expected by the first remote data communication device; and

transmitting the converted third transmission to the first remote data communication device.

25. (previously added) A system for interconnecting a plurality of data communication devices, the system comprising:

a first data communication path for receiving a transmission from a first data communication device;

an arbitrator operative to automatically:

retrieve a first mobile identification number (MIN) for the first remote data communication device;

use the first MIN to identify a second data communication device and a data format expected by the second data communication device;

convert the transmission into the data format expected by the second data communication device; and

a second data communication path for transmitting the transmission converted by the arbitrator to the second data communication device.

26. (previously added) The system of Claim 25, each of the plurality of data communication devices has a MIN, and wherein the arbitrator is further operative to:

maintain a database that stores the MIN of each of the plurality of data communication devices;

retrieve the MIN of the first data communication device from the transmission received; and

search the database with the MIN of the first data communication device to determine the identity of the second data communication device.

27. (previously added) The system of Claim 25, further comprising

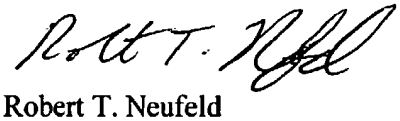
a database that stores the data format expected by each of the plurality of data communication devices, and wherein the arbitrator is further operative to search the database using the MIN of the first data communication device to determine the data format expected by the second data communication device.

CONCLUSION

The foregoing is submitted as a full and complete response to the final Official Action mailed on March 29, 2004. The Applicants and the undersigned thank Examiner Ferguson for indicating Claims 14-19 and 21-27 recite allowable subject matter. The Applicants have canceled rejected Claims 1-13 and 20. The Applicants respectfully submit that the present application is in condition for allowance.

An early notice of allowance is hereby courteously solicited. If any other issues remaining in this application may be resolved by a telephone conference, the Examiner is respectfully requested to contact the undersigned at (404) 572-3509.

Respectfully submitted,



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